

Serial No.: Not assigned  
Docket No. N36-138996M/TH

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of  
Kenji Kamada et al.

Docket No. N36-138996M/TH

Serial No.: not assigned

Group Art Unit: No. Not assigned

Filed: Herewith

Examiner: Not assigned

For: **METHOD FOR MACHINING GLASS SUBSTRATE**

Box: Non-final amendment  
Assistant Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**AMENDMENT UNDER 37 C.F.R. §1.111**

Sir:

Prior to initial examination, please amend the above-identified application as follows:

**IN THE CLAIMS:**

Please amend claims 3-6 as follows. A clean copy of amended claims 3-6 is provided in the attached separate sheet, entitled "Clean Copy of Amended Claims."

3. (Amended) The method according to claim 1 [or 2], further comprising the step of:  
changing a distance between a beam-condensing point of said laser beam and said surface of said glass substrate.
4. (Amended) The method according to [any one of claims 1 to 3] claim 1, further comprising the step of:  
moving said beam-condensing point of said laser beam relatively in a direction parallel to said surface of said glass substrate.
5. (Amended) The method according to [any one of claims 1 to 4] claim 1, wherein said laser

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beam is pulsed light having a pulse width not larger than 10 picoseconds.

6. (Amended) A V-shaped groove formed in a surface of a glass substrate by a method for machining said glass substrate as defined in [any one of Claims 1 through 4] claim 1, wherein an angle of from 30 degrees to 120 degrees is formed between opposite side surfaces of said V-shaped groove.

### REMARKS

Claims 1-11 are currently pending in the application. By this amendment, claims 3-6 are amended to delete multi-dependencies. Attached hereto is a separate sheet entitled "Clean Copy of Claims" showing a clean copy of the amended claims. No new matter is added. Applicants now request examination on the merits.

The Examiner is invited to contact the undersigned at the telephone number listed below, if needed. Please charge any deficiencies in fees and credit any overpayment of fees to Attorney's Deposit Account No. 23-1951.

Respectfully submitted,



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### **Clean Copy of Claims**

The following is a clean copy of amended claims 3-6.

3. (Amended) The method according to claim 1, further comprising the step of:  
changing a distance between a beam-condensing point of said laser beam and said surface of said glass substrate.
4. (Amended) The method according to claim 1, further comprising the step of:  
moving said beam-condensing point of said laser beam relatively in a direction parallel to said surface of said glass substrate.
5. (Amended) The method according to claim 1, wherein said laser beam is pulsed light having a pulse width not larger than 10 picoseconds.
6. (Amended) A V-shaped groove formed in a surface of a glass substrate by a method for machining said glass substrate as defined in claim 1, wherein an angle of from 30 degrees to 120 degrees is formed between opposite side surfaces of said V-shaped groove.